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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/653,223	09/03/2003	Keiji Osawa	103173.04	2729	
25944	7590 08/10/2005		EXAM	INER	
OLIFF & BERRIDGE, PLC			SHAFER,	SHAFER, RICKY D	
P.O. BOX 199			ADTIBUT	DARED MINADED	
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			2872		
			DATE MAILED: 08/10/200:	DATE MAILED: 08/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/653,223	OSAWA, KEIJI			
		Examiner	Art Unit			
		Ricky D. Shafer	2872			
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)🖾	Responsive to communication(s) filed on 16 M	<u>ay 2005</u> .				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1-9 and 13-20 is/are allowed. Claim(s) 10-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Application	on Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	t(s) e of References Cited (PTO-892)	4) 🔲 Interview Summar	v (PTO_413)			
1) Notic 2) Notic	Date					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

1. Applicant's arguments filed 5/16/2005 have been fully considered but they are not persuasive.

Applicant argues that the reference to Saito fails to teach or suggest that the plurality of birefringent plates are thinner than said phase plate.

The examiner disagrees and refers applicant to figures 4(A) and 11(B) of Saito, wherein the birefringent plates [(1a,1b),(85,86)] are clearly thinner than element [(3),(84)], wherein the examiner considers element [(3),(84)] to be a phase plate due to the fact that said element is birefringent.

It is well known that a "birefringent medium" has two different indices of refraction and based on their different indices of refraction, light traversing through the medium will exhibit a phase difference between the ordinary and extraordinary components of light exiting said birefringent medium. The examiner refers applicant to any basic physics and/or optics handbook. Thus, the birefringent element [(3),(84)] of Saito is a phase plate, as broadly recited by applicant in claim 10, lines 5-9.

Moreover, throughout applicant's specification, i.e. page 33, page 46...etc., applicant clearly defines the phase plate (1c) as being quartz which clearly is a birefringent medium.

Accordingly, the rejection is repeated and maintained.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 10 is rejected under 35 U.S.C. 102(b) as being anticipated by Saito (960).

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Saito discloses an optical filter comprising a plurality of birefringent plates [(1a,1b), (85,86)] for spatially dividing incident light, and at least one phase plate [(3), (84)], note figures 4(A) and 11(B), wherein the birefringent plates [(1a,1b),(85,86)] are thinner than phase plate [(3), (84)].

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (960) in view of Shinbori et al (236) or Nakajima (127).

Saito each disclose all of the subject matter claimed, note the above explanation, except for an IR blocking filter.

Shinbori et al and Nakajima each teach it is known to integrate an IR blocking filter within an optical filter in the same field of endeavor for the purpose of blocking IR light rays to an image sensor.

Therefore, it would have been obvious and/or within the level of one of ordinary skill in the art at the time the invention was made to modify the optical filter of Saito to include an IR blocking filter, as taught by Shinbori et al or Nakajima, in order to prevent detrimental IR light rays form entering an image sensor.

6. Claims 1-9 and 13-20 are allowed.

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7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricky D. Shafer whose telephone number is (571) 272-2320. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RDS

August 07, 2005